

CAFO FACILITY INSPECTION REPORT

PCA SYSTEM TASK NO:

INSPECTOR(S): Anthony D'Angelo (PG Environmental, LLC)

FACILITY INFORMATION

8365981001
WDID NUMBER

Bennett Slegers
OWNER NAME

Chino Valley Dairy
FACILITY NAME

CAG018001
NPDES NUMBER

Ex. 6 Personal Privacy (PP)

R8-2007-0001
RWQCB ORDER NO.

Bakersfield, CA 93314
OWNER CITY AND STATE

Ontario, CA 91761
FACILITY CITY AND STATE

03/07/2013
SCHEDULED INSPECTION DATE

Bennett Slegers
OWNER CONTACT

Marty Van Leeuwen
FACILITY CONTACT

03/07/2013
ACTUAL INSPECTION DATE

Ex. 6 Personal Privacy (PP)

Unknown
RECEIVING WATER

FACILITY	LATITUDE	FACILITY	LONGITUDE

INSPECTION TYPE

- ☐ (A1) "A" type compliance -- (EPA Type S)
- ☒ (B1) "B" type compliance -- (EPA Type C)
- ☐ (02) Noncompliance follow-up - Correction of a previously identified violation
- ☐ (03) Enforcement follow-up - Enforcement action is being met

- ☐ (04) Complaint - Complaint
☐ (05) Pre-requirement
☒ (06) Miscellaneous

(Type) NOTE: If this is an EPA inspection not mentioned above, please note type (e.g., biomonitoring, performance audit, diagnostic, etc.)

No	Was the inspection pre-announced?
Yes	Were potential violations noted during this inspection?
No	Was this a quality assurance-based inspection?
No	Were bioassay samples collected?
No	Were water quality samples collected?

INSPECTION SUMMARY

The overall Facility rating, on a 1 (Unreliable) to 5 (Very Reliable) scale, was determined to be: 2 = Marginal.

Chino Valley Dairy (hereinafter, Facility) was rated "Marginal" due to the following items:

- Depth markers were not installed in the two wastewater lagoons (refer to Photos 4 and 11)
- The Engineered Waste Management Plan (EWMP) was not fully implemented onsite at the Facility (refer to Photos 4, 5, and 6)
- A previous release of manure offsite onto Bon View Avenue was observed along the eastern Facility perimeter (refer to Photos 18 and 19)
- Accumulated manure solids and vegetation growth was present in lagoon No. 1 (refer to Photos 4 through 7)

INSPECTOR DATA

INITIALS AJD SIGNATURE _____ DATE 03/07/2013

CIWQS DATA ENTRY DATE: _____ REGIONAL BOARD FILE NUMBER: _____

FOR INTERNAL USE: REVIEWED BY: (1) _____ (2) _____ (3) _____

REPORT PREPARED BY: Anthony D'Angelo (PG Environmental, LLC) ON 03/21/2013

EPA SUGGESTED INSPECTION CHECKLIST

- | | | | |
|--|---|---|--|
| <input checked="" type="checkbox"/> Permit | <input type="checkbox"/> Flow Measurement | <input type="checkbox"/> Pretreatment | <input checked="" type="checkbox"/> Operations & Maintenance |
| <input checked="" type="checkbox"/> Records/Reports | <input type="checkbox"/> Laboratories | <input type="checkbox"/> Compliance Schedules | <input type="checkbox"/> Sludge Disposal |
| <input checked="" type="checkbox"/> Facility Site Review | <input type="checkbox"/> Eff/Receiving Waters | <input type="checkbox"/> Self-Monitoring | <input type="checkbox"/> Other |

POTENTIAL VIOLATIONS

1. Depth markers were not installed in the two (2) wastewater lagoons, located in the central and central-east portions of the Facility as required by Permit Attachment B - Monitoring and Reporting Program, Section I.B.1 (refer to Photos 4 and 11). This is a recurring issue identified in a previous inspection conducted on December 8, 2011.

Description of Potential Violation: **Refer to Item No. 1 of the 'Inspection Observations' section of this report for additional details**

2. The EWMP had not been fully implemented onsite at the Facility at the time of the inspection, as required by Provision VII.C.3.b of the Permit (refer to Photos 4, 5, and 6). This is a recurring issue identified in a previous inspection conducted on December 8, 2011.

Description of Potential Violation: **Refer to Item Nos. 1 and 2 of the 'Engineered Waste Management Plan Review' section of this report for additional details.**

3. A release of manure offsite was observed along the eastern Facility perimeter onto Bon View Avenue from the northeastern pastures (refer to Photos 18 and 19). A release of manure offsite to land and property not owned or controlled by the Discharger is prohibited by Discharge Prohibitions IV.A-B of the Permit.

Description of Potential Violation: **Refer to item No. 1 of the 'Facility Housekeeping, Wastewater, and Manure Information' section of this report for additional details.**

4. Accumulated manure solids and vegetation growth was observed in lagoon No. 1 in the central portion of the Facility (refer to Photos 4 through 7). The Discharger must design and maintain all containment structures per the approved EWMP as required by Provision VII.C.3.a of the Permit.

Description of Potential Violation: **Refer to Item Nos. 2 and 3 of the 'Facility Housekeeping, Wastewater, and Manure Information' section of this report for additional details.**

Date of Potential Violation: **N/A**

Date of Potential Violation Determination: **March 7, 2013**

INSPECTION OBSERVATIONS

On March 7, 2013, a Concentrated Animal Feeding Operation (CAFO) inspection was conducted for Santa Ana Water Board Order No. R8-2007-0001 - 'General Waste Discharge Requirements for Concentrated Animal Feeding Operations (Dairies and Related Facilities) within the Santa Ana Region', NPDES General Permit No. (CAG018001) at Chino Valley Dairy in Ontario, California (refer to Photo 1). The inspector met with Mr. Marty Van Leeuwen (Manager, Chino Valley Dairy) at approximately 8:35 AM on March 7, 2013. Mr. Van Leeuwen joined the inspector for the records review and during the Facility site visit. The inspector held a closing conference with Mr. Van Leeuwen at the conclusion of the inspection. During the closing conference, the inspector reviewed the preliminary inspection findings with the Facility representative.

The Facility is a 78.8-acre dairy farm with an animal population of approximately 1,100 milking cows, 250 dry cows, and 200 heifers at the time of the inspection. Process wastewater from milking and cow washing activities is collected into a sump on the south side of the milking barn (refer to Photo 2). Process wastewater collected in the sump can be piped south to lagoon No. 1 located in the central portion of the Facility via gravity or pumped to field Nos. 1 or 2 for land application via approximately six (6) alfalfa heads (refer to Photos 4 through 10). Mr. Van Leeuwen stated that during the winter months, process wastewater from the milking barn is stored in an aboveground storage tank and used to flush the feed and hay lanes (refer to Photos 2, 3, and 14). Process wastewater from flushing activities is collected into floor drains on the south end of the feed lanes and is piped directly into lagoon No. 1 (refer to Photos 14 and 15). Field storm water runoff and excess process wastewater from land application events is collected in the southwest corner of the Facility, and may be pumped via a sump pump as return flow back into lagoon Nos. 1 and 2 (refer to Photo 7). A concrete spillway for emergency offsite discharges from catch basin No. 3 was identified in the southwest corner of the Facility, adjacent to Ex. 6 Personal Privacy (PP) (refer to Photo 17). Process wastewater collected in lagoon No. 2 located on the central-east portion of the Facility is released south through two (2) valves onto field No. 3 located in the southeast corner of the Facility for land application (refer to Photos 11 and 12). Surface runoff from corral Nos. 1 through 4 flows south then west into field No. 1. Surface runoff from the remainder of the corrals flows south into floor drains and culverts on the south side of the corrals, and subsequently piped directly into lagoon No. 1 (refer to Photos 13 through 16). Surface runoff from the pasture Nos. 1 through 5 naturally flows south and is collected into two sumps located in pasture No. 5 which drains to lagoon No. 2. At the time of the inspection, process wastewater from the milking barn was being pumped to the distribution manifold on the northside of field No. 1, conveyed along the land application line, and released out of an alfalfa valve immediately upgradient of lagoon No. 2 (refer to Photo 10). Lagoon No. 2 was observed containing standing water and had approximately three (3) feet of freeboard (refer to Photo 11). Mr. Van Leeuwen stated all process wastewater was being diverted to lagoon No. 2 because the Discharger was preparing to install an access ramp into lagoon No. 1 on the western embankment to allow access for cleaning. In addition, Mr. Van Leeuwen stated that lagoon No. 1 had not been cleaned of solids since the Discharger took operational control of the Facility in September 2010. Accumulated manure solids were observed in the lagoon (refer to Photos 4, 5, and 6).

Mr. Van Leeuwen stated that the corrals are cleaned two (2) times per year and that two (2) manure hauling events occurred in 2012. Manure is hauled offsite by Celaya Trucking and is disposed of typically at Chino Prison and Cleveland Farms. Manure tracking manifests were maintained of all haul events during the 2012 reporting period. Mr. Van Leeuwen stated that all mortalities are removed from the Facility immediately by Stiles Animal Removal, Inc.

FACILITY

CAFO Size: **Large**
(at time of inspection)

Total Acres: **78.8**

Production Area Acres: **74.15**

CONTAINMENT STRUCTURES

Wastewater Lagoons: **2**

Evaporation Ponds: **0**

Catch Basins: **3**

Depth Markers: **0**

Other: **3 disposal fields and 2
evaporation basins**

ANIMALS ONSITE DURING INSPECTION

Milk Cows: **1,100**

Dry Cows: **250**

Heifers: **200**

Calves: **0**

Other: **N/A**

INSPECTION OBSERVATIONS

1. The inspector observed, during the inspection, that depth markers were not installed in lagoon Nos. 1 and 2 located in the central and central-east portion of the Facility, as required by the Permit (refer to Photos 4 and 11). Manure solids was observed inside lagoon No. 1; however, the inspector could not determine the depth of the solids within the lagoon due to the lack of a depth marker (refer to Photos 5 and 6). Lagoon No. 2 contained process wastewater; however, the inspector could not determine the depth of the wastewater within the lagoon due to the lack of a depth marker (refer to Photo 11). This is a recurring issue identified in a previous inspection conducted on December 8, 2011. Permit Attachment B - Monitoring and Reporting Program, Section I.B.1 states that "a marker shall be placed within each pond or impoundment to indicate the minimum capacity necessary to contain the runoff and direct precipitation of the 25-year, 24-hour rainfall event."

ANNUAL REPORT REVIEW

ANNUAL REPORT

Monitoring Year: **2012**

Reviewed: **Yes**

Signed & Certified: **Yes**

Submittal Date: **January 14, 2013**

REPORTED ANIMAL POPULATION

Milk Cows: **1,180**

Dry Cows: **320**

Heifers: **250**

Calves: **0**

Other: **N/A**

MANURE INFORMATION

Amount of manure spread on cropland at the Facility: **0**

Amount of manure hauled away from the Facility: **7,509 Tons**

Name and location of the composting operation, or, if the manure was hauled to cropland, the owner or tenant, and the destination address: **Chino Prison and Cleveland Farms (Chad Cleveland)**

1. Annual Reports for the previous five (5) years were retained onsite at the Facility at the time of the inspection. The 2012 Annual Report was reviewed as a component of this inspection.

ENGINEERED WASTE MANAGEMENT PLAN (EWMP) REVIEW

Did the inspector review the EWMP in the RWQCB file?

Yes

Did the Facility have a copy of the EWMP on-site and available for review?

Yes

EWMP preparation date:

January 2004

EWMP prepared by:

Nolte Associates, Inc.

Santa Ana RWQCB EWMP acceptance date:

February 3, 2004

Inspection Date: **March 7, 2013**

Page 5 of 7

EWMP was certified by the Facility's engineer/consultant on:

Unknown

1. The EWMP was not fully implemented onsite at the Facility as required by the Permit. Section V - 'Operation and Maintenance' of the EWMP states that "daily inspections should be made upon all ponds, berms, and wastewater distribution and application equipment following the first significant rain event of each winter season. These daily inspections should continue until large rain events cease in the spring." The Discharger was only conducting weekly visual inspections of containment structures at the time of the inspection. As a result, the Discharger was not fully implementing the approved EWMP. Provisions VII.C.3.b of the Permit states that "the discharger shall develop and fully implement an Engineered Waste Management Plan (EWMP) acceptable to the Executive Officer." The Discharger shall fully implement the EWMP as required by Provision VII.C.3.b of the Permit.
2. The EWMP was not fully implemented onsite at the Facility as required by the Permit. Section V - 'Operation and Maintenance' of the EWMP states that "lagoon solids shall be removed every summer to ensure full capacity in the lagoons before the start of the next winter season." Specifically, accumulated manure solids was observed in lagoon No. 1 (refer to Photos 4, 5, and 6). Mr. Van Leeuwen stated that the lagoon does not contain an access ramp and it is impossible to access the pond to remove solids. In addition, he stated that the lagoon had not been cleaned since the Discharger took operational control of the Facility in September 2010. Furthermore, Mr. Van Leeuwen stated that he was currently in the process to design and construct an access ramp on the south embankment of the lagoon. Lagoon No. 1 did not contain depth markers; therefore, the inspector was unable to determine the depth of accumulated manure solids in the lagoon (refer to Photo 4). As a result, the Discharger was not fully implementing the approved EWMP or ensuring adequate containment capacity within the lagoons. Provision VII.C.3.b of the Permit states that "the discharger shall develop and fully implement an Engineered Waste Management Plan (EWMP) acceptable to the Executive Officer." The Discharger shall fully implement the EWMP as required by Provision VII.C.3.b of the Permit.

NUTRIENT MANAGEMENT PLAN (NMP) REVIEW (IF APPLICABLE)

Did the Facility have a copy of the NMP on-site and available for review? **N/A**
Date NMP was prepared: **N/A**
NMP prepared by: **N/A**
Santa Ana RWQCB NMP acceptance date: **N/A**

1. The Discharger does not apply manure, litter, or process wastewater to croplands under their ownership or operational control; therefore, the Discharger is not required to develop, implement, and retain onsite a Nutrient Management Plan as stated in Provision VII.C.3.d of the Permit.

FACILITY HOUSEKEEPING, WASTEWATER, AND MANURE INFORMATION

Typical Depth of Manure in Corrals (in inches): **3-12**
Estimated Freeboard in Fullest Lagoon (in feet): **3**
Date of Last Lagoon Solids Removal, per Facility Representative: **Never**
Disposal Location for Lagoon Solids: **N/A**

REVIEW OF FACILITY HOUSEKEEPING

1. The inspector observed, during the inspection, a release of manure offsite from the northeastern pastures onto Bon View Avenue along the eastern Facility perimeter (refer to Photos 18 and 19). This potential violation was observed by the inspector after departing the Facility; therefore, it was not discussed with the Facility

Inspection Date: March 7, 2013

Page 6 of 7

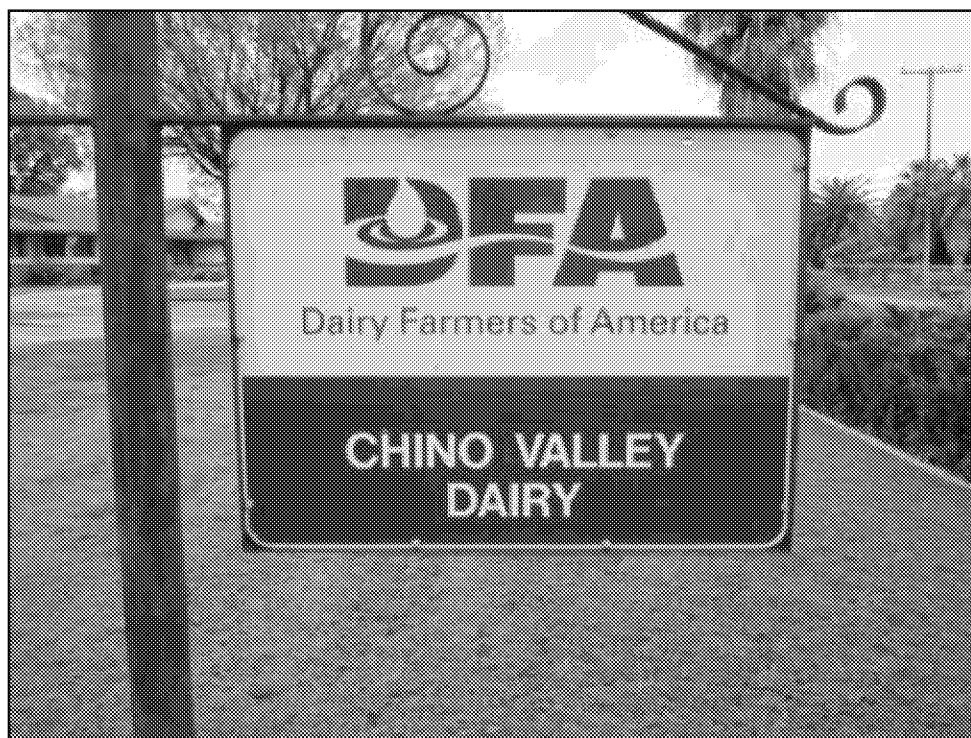
representative during the inspection closing conference. A release of manure offsite to land and property not owned or controlled by the Discharger is prohibited by Discharge Prohibitions IV.A-B of the Permit.

CONDITION OF BERMS AND CONTAINMENT STRUCTURES

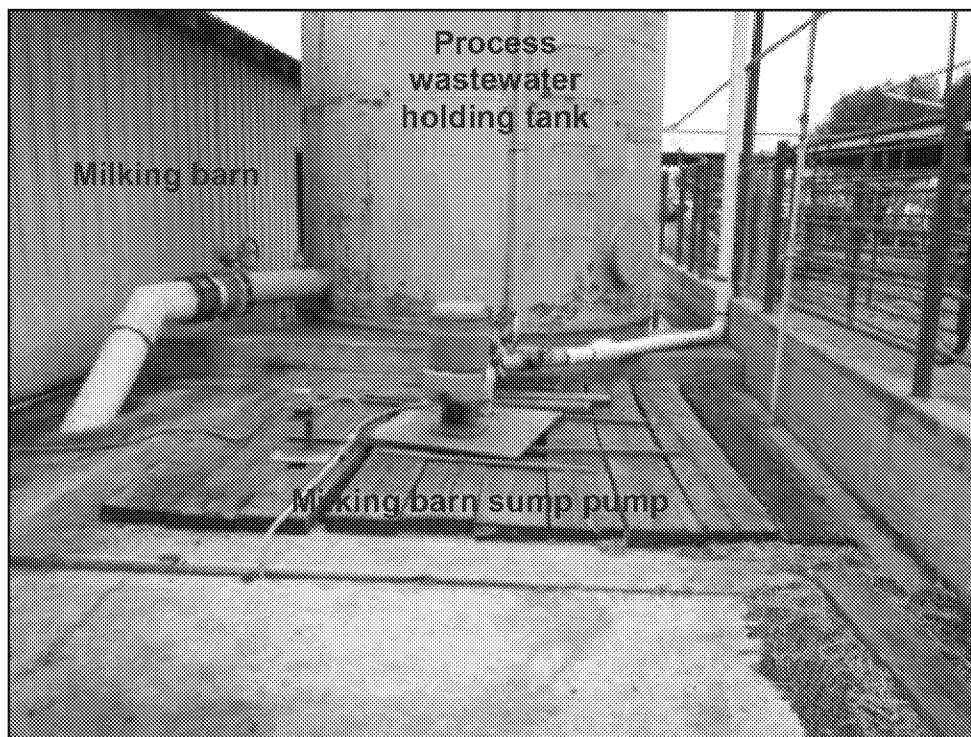
2. The inspector observed, during the inspection, accumulated manure solids in lagoon No. 1 in the central portion of the Facility (refer to Photos 4, 5, and 6). Mr. Van Leeuwen stated that the lagoon does not contain an access ramp and it is impossible to access the pond to remove the solids. In addition, he stated that the lagoon had not been cleaned since the Discharger took operational control of the Facility in September 2010. Furthermore, Mr. Van Leeuwen stated that he was currently in the process of designing and constructing an access ramp. Lagoon No. 1 did not contain depth markers; therefore, the inspector was unable to determine the depth of accumulated manure solids in the ponds (refer to Photo 4). Section V - 'Operation and Maintenance', Item E - 'Solids Removal' of the EWMP states "as soon as practicable following the ending of the wet season, solids shall be removed from the containment basins to restore the minimum required available capacity of the basins prior to the next wet season." As a result, the overall capacity of the lagoon at the Facility may be diminished. Provision VII.C.3.a of the Permit states that "the discharger shall design, construct, and maintain containment structures to retain all wastewater within the facility, including all process wastewater and all precipitation on, and drainage through, manured areas resulting from rainfall up to and including a 25-year, 24-hour rainfall event." The Discharger must design and maintain all containment structures per the approved EWMP as required by Provision VII.C.3.a of the Permit.
3. The inspector observed, during the inspection, that vegetation growth potentially affecting the containment structure capacity was present in lagoon No. 1 (refer to Photos 4 and 7). Mr. Van Leeuwen stated that the lagoon does not contain an access ramp and had not been maintained since the Discharger took operation control of the Facility in September 2010. Section V - 'Operation and Maintenance' of the EWMP states "weed abatement measures...should be used to control weeds in fields, lagoons, wastewater transport channels, and wastewater access paths." Weed abatement practices were not conducted to control vegetation growth in lagoon No. 1 at the Facility. As a result, the overall capacity of the lagoon at the Facility may be diminished. Provision VII.C.3.a of the Permit states that "the discharger shall design, construct, and maintain containment structures to retain all wastewater within the facility, including all process wastewater and all precipitation on, and drainage through, manured areas resulting from rainfall up to and including a 25-year, 24-hour rainfall event." The Discharger must design and maintain all containment structures per the approved EWMP as required by Provision VII.C.3.a of the Permit.

ITEMS FOR FOLLOW UP ON FUTURE INSPECTIONS

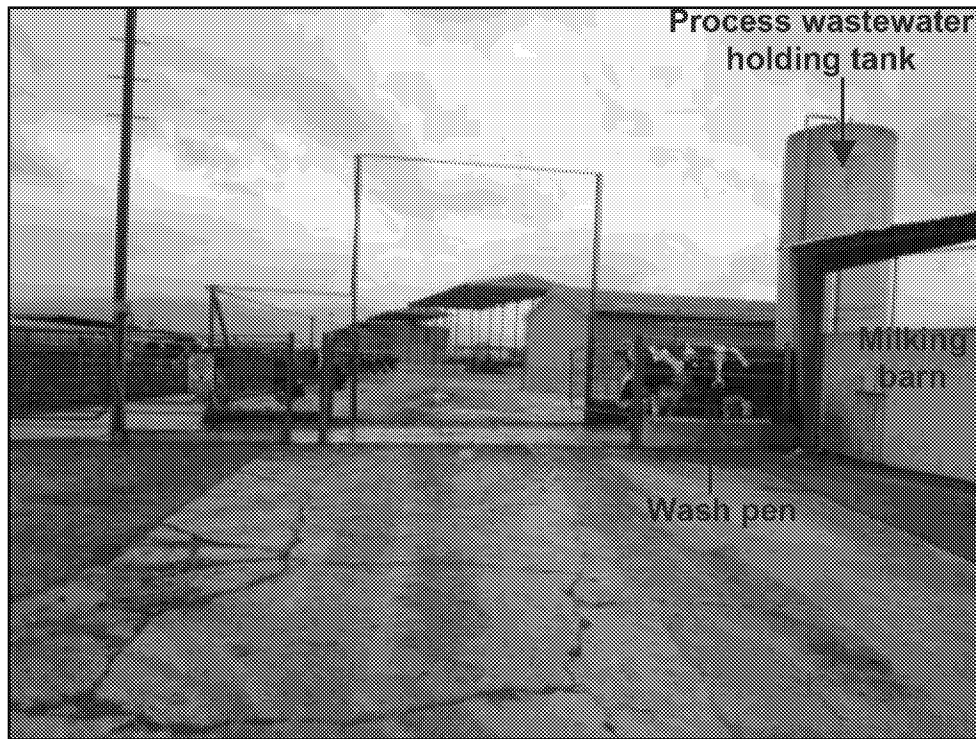
1. Verify depth markers have been installed in lagoon Nos. 1 and 2
2. Verify daily inspections are conducted during the wet season
3. Verify that the EWMP is fully implemented onsite
4. Verify lagoon No. 1 has been maintained per the EWMP
5. Verify all manure from corral areas is contained onsite



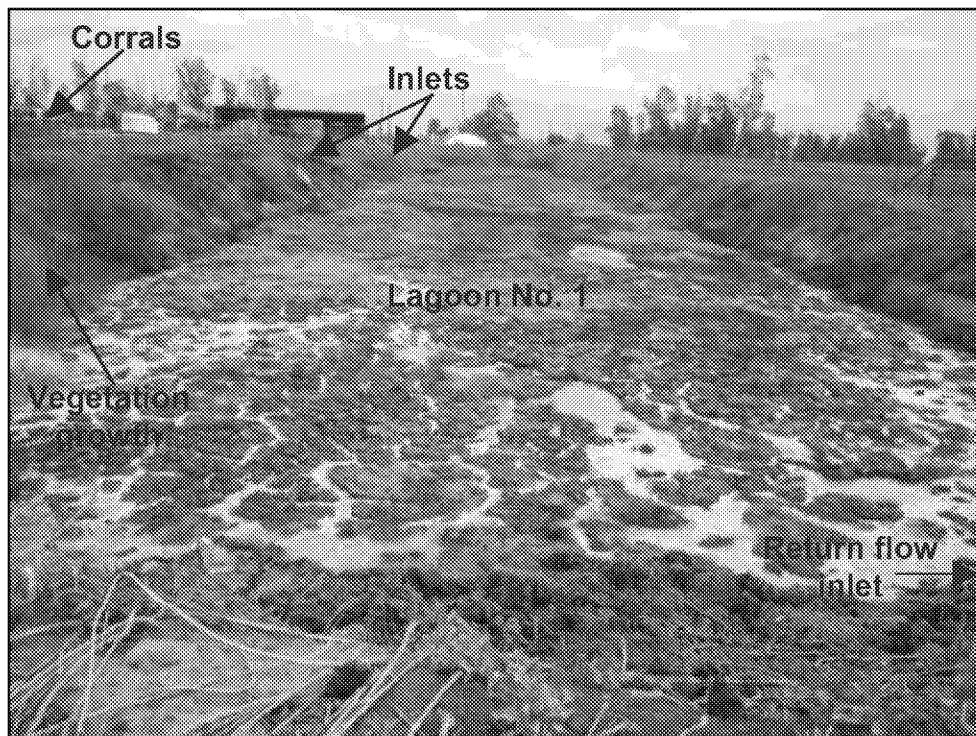
Photograph 1. Chino Valley Dairy Facility sign.



Photograph 2. View facing east of the process wastewater sump pump and process wastewater holding tank on the south side of the milking barn. Note the holding tank is used to store process wastewater for cow alley flushing activities.



Photograph 3. View facing south from the east side of the milking barn down the western feed and hay lane. Note the holding tank used for storage of process wastewater during the winter months.



Photograph 4. View facing east of lagoon No. 1. Note the lack of a depth marker. Also note Mr. Marty Van Leeuwen (Manager, Chino Valley Dairy) stated that the lagoon had not been cleaned since the Discharger began operating the dairy in September 2010.



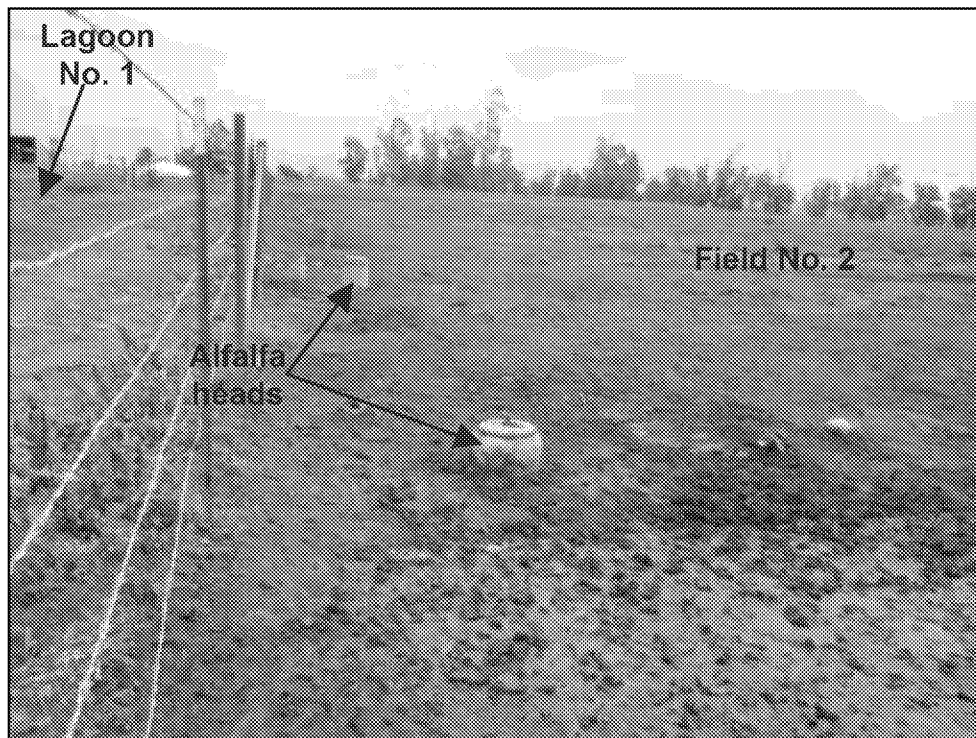
Photograph 5. View facing north of the corral and feed lane floor drain outlets into the north side of lagoon No. 1. Note the accumulated solids in the lagoon.



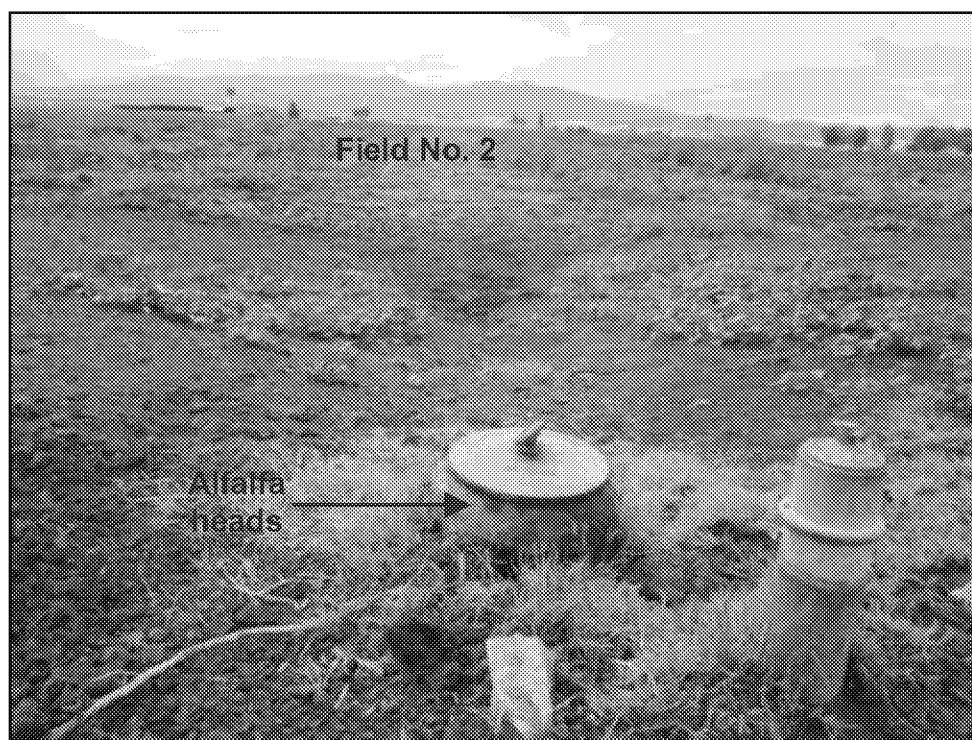
Photograph 6. View facing north of a process wastewater outlet into the north side of lagoon No. 1. Note the accumulated solids in the lagoon.



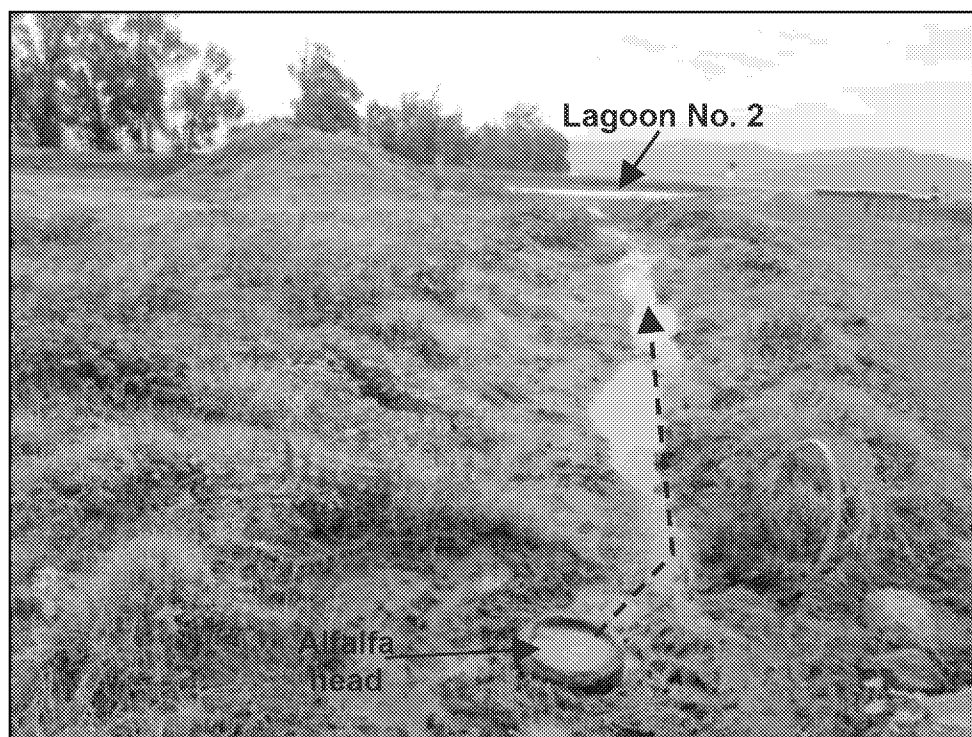
Photograph 7. View facing southeast of the return flow outlet pipe into the southwest corner of lagoon No. 1. Note return flow (i.e., storm water runoff and/or process wastewater from land application) is collected and pumped from the southwest corner of the Facility. Note the vegetation growth in the lagoon.



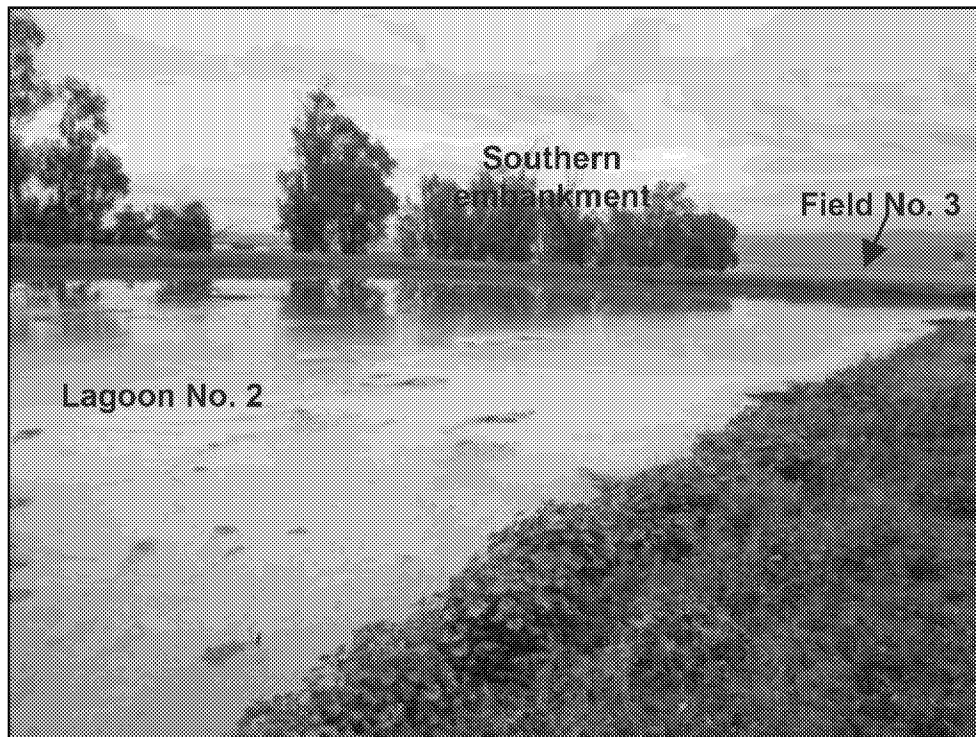
Photograph 8. View facing east of the alfalfa head disposal valves on the north side of field No. 2, adjacent to lagoon No. 1.



Photograph 9. View facing south of an alfalfa head disposal valve on the north side of field No. 2.



Photograph 10. View facing south of an alfalfa head disposal valve releasing process wastewater into lagoon No. 2. Note the collected water in lagoon No. 2 is used to irrigate field No. 3.



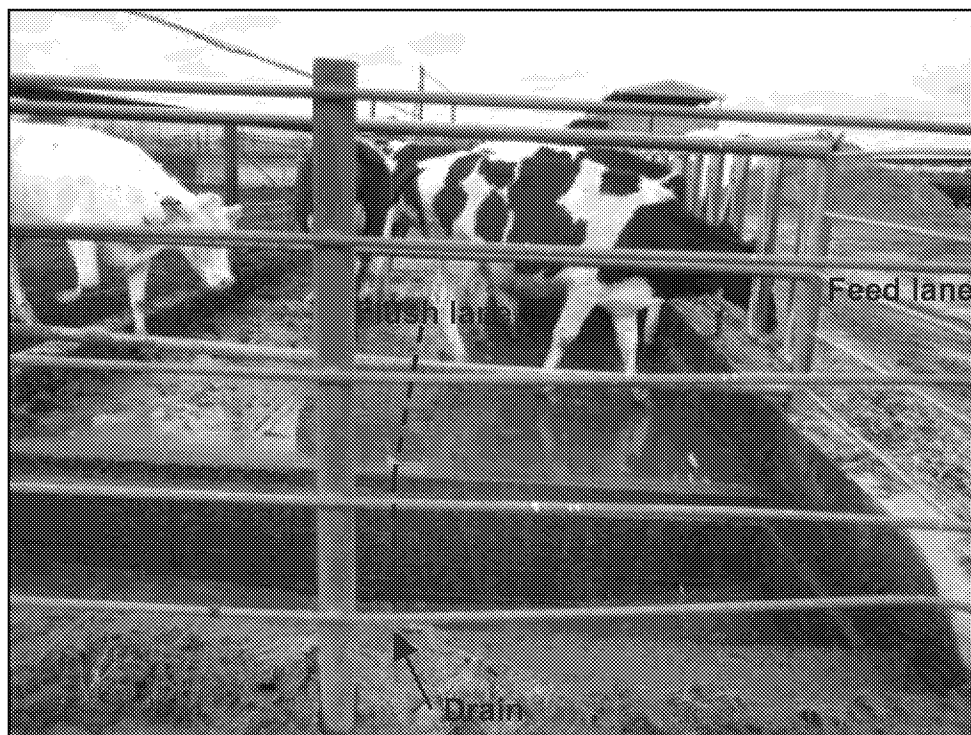
Photograph 11. View facing southeast of lagoon No. 2. Process wastewater from the lagoon is released through the southern embankment via two valves for irrigation of field No. 3. Note the lagoon did not contain a depth marker.



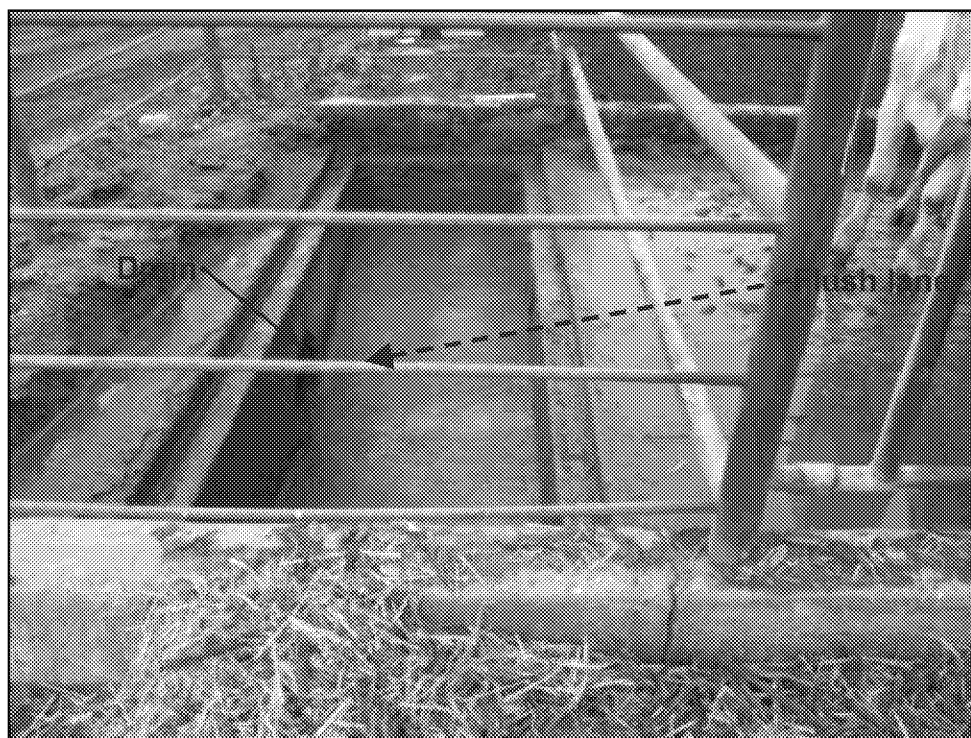
Photograph 12. View facing south of one of the lagoon No. 2 release valve locations on the north side of field No. 3. Note the field was being irrigated with process wastewater at the time of the inspection.



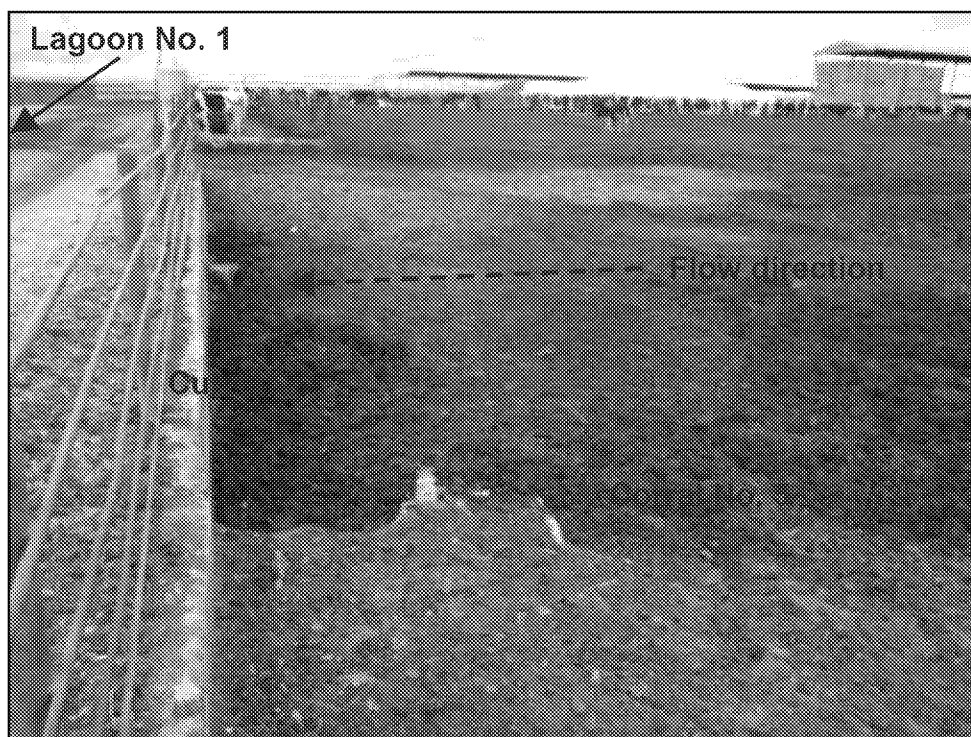
Photograph 13. View facing north of a drain implemented on the south side of the western feed lane. Note the drain is connected to lagoon No. 1.



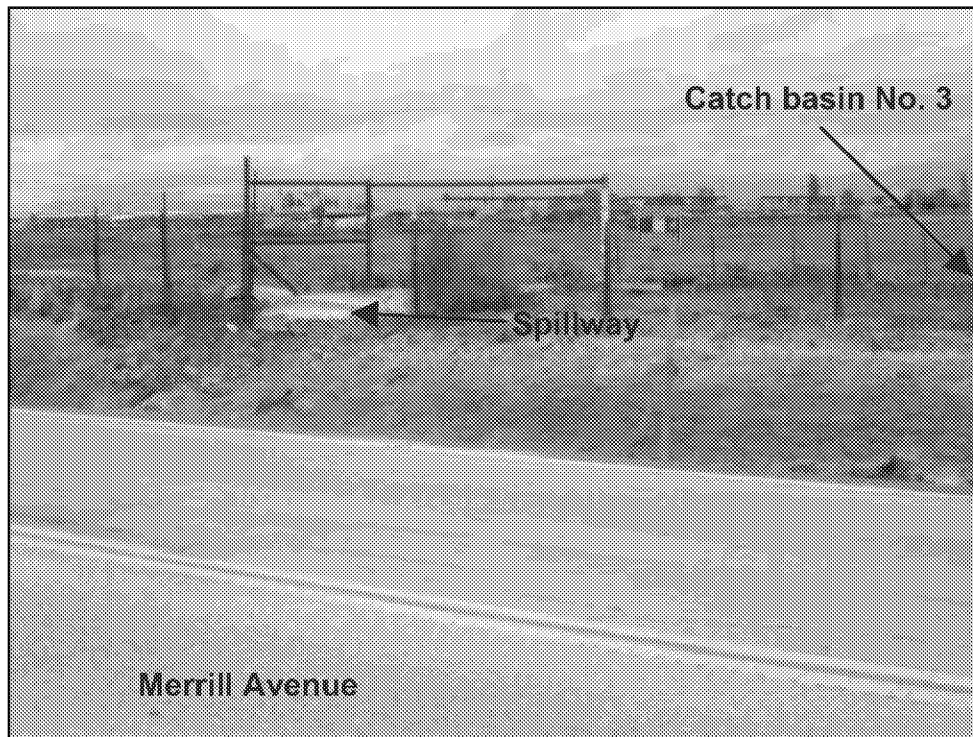
Photograph 14. View facing north of a drain implemented on the south side of the western flush lane. Note the drain is connected to lagoon No. 1, shown in Photograph 4.



Photograph 15. View facing southwest of a drain implemented on the south side of the western flush lane. Note the drain is connected to lagoon No. 1, shown in Photograph 4.



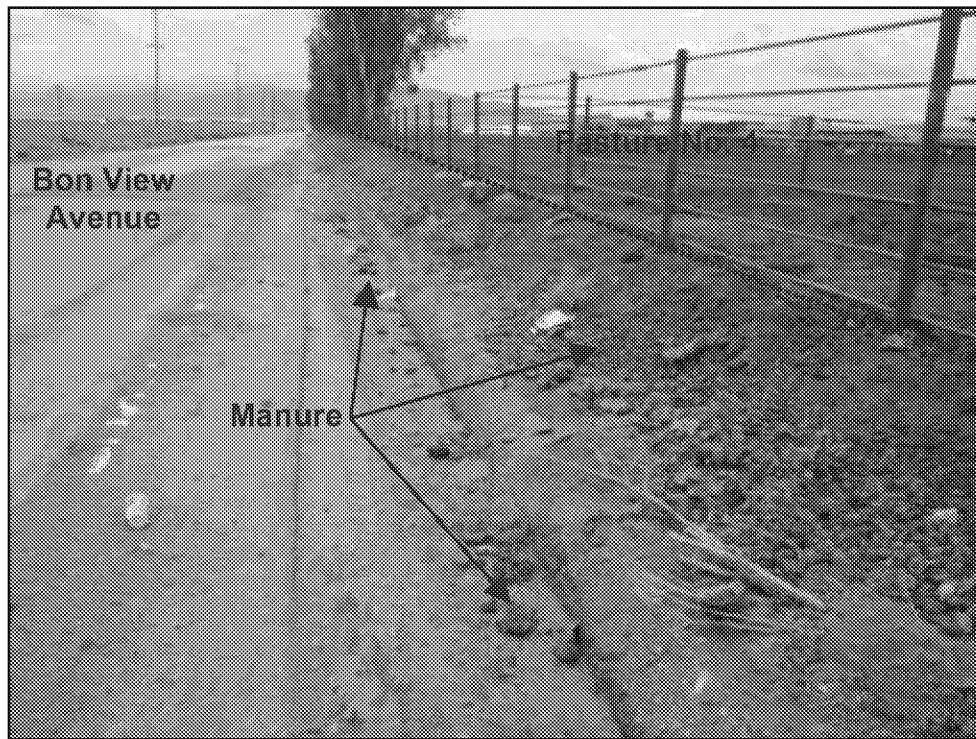
Photograph 16. View facing west of a culvert on the south side of Corral No. 5. Note the culvert conveys storm water runoff from the eastern corrals into lagoon No. 1.



Photograph 17. View facing northwest of the Facility concrete spillway and catch basin No. 3 located in the southwest corner of the Facility, adjacent to Merrill Avenue.



Photograph 18. View facing north along Bon View Avenue of evidence of a previous manure release offsite onto Bon View Avenue from pasture Nos. 3 and 4 in the northeastern portion of the Facility.



Photograph 19. View facing south along Bon View Avenue of a previous release of manure offsite onto Bon View Avenue from pasture Nos. 3 and 4 in the northeastern portion of the Facility.